AI powered code reviewer - MERN

Source Sheryians coding school

Structure:

Backend- using express we will create entire backend

Frontend – using react we will create entire frontend

Steps:

Backend

1. npm init -y
2. npm i express
3. create file server.js
4. create folder src
5. in src create file app.js
6. Server Setup
7. in app.js
   1. we will require express
   2. calling express() to create an instance of server. Means a server is created
   3. exporting app
8. in server.js
   1. calling app by requiring
   2. making server start by using listen() command
   3. calling callback in listen(), whenever server starts callback is called
9. changing main entry point in package.json from index.js to server.js
10. type npx nodemon in terminal and server starts
11. Server Setup Done
12. **Integrating AI**
13. Go to ai.google.dev -> explore models -> get api key -> generate api key and copy
14. Create new file .env and create variable and paste the copied key
15. Install package: npm i dotenv
16. In server require dotenv, require(“dotenv”).config()
17. Doing so will allow us to access the key in .env file
18. Go to api documentation page of ai.google.dev
19. Select node.js section and copy the code
20. In src folder, create services folder and inside it create file ai.service.js and paste the code
21. npm i @google/generative-ai
22. write process.env.GOOGLE\_GEMINI\_KEY in place of API key in parameter
23. we create instance of google gen ai
24. and select the model of gen ai. Here we are using gemini-2.0-flash
25. create a function to send prompt to ai
26. create a folder routes in src and create a file ai.routes.js
27. create a router to handle user request and prompt
28. create a folder controller in src and create a file ai.controller.js
29. this file contains controller to handle prompts

Frontend

1. in main directory type npm create vite@latest
2. style the page write basic html
3. npm i prismjs for making the output code generated by ai highlighted
4. npm i react-simple-code-editor
5. npm i axios
6. npm i cors
7. npm i react-markdown